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UNITED STATES DEPARTMENT OF AGRICULTURE
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Number 13

BIBLIOGRAPHICAL CONTRIBUTIONS

June, 1927

A CLASSIFIED LIST OF SOIL PUBLICATIONS
of the
United States and Canada

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Washington, D. C.

1927

UNITED STATES DEPARTMENT OF AGRICULTURE

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Bibliographical Contributions.

- No. 1. A check list of publications of the Department of Agriculture on the subject of plant pathology. 1837-1913. Prepared in the Bureau of Plant Industry Library. 1919. (Superseded by No. 8).
- No. 2. Check list of publications of the state agricultural experiment stations on the subject of plant pathology, 1876-1920. Prepared in the Bureau of Plant Industry Library. 1922.
- No. 3. Check list of publications issued by the Bureau of Plant Industry, United States Department of Agriculture, 1901-1920 and by the divisions and offices which combined to form this bureau, 1862-1901. Prepared in the Bureau of Plant Industry Library. 1921.
- No. 4. Bibliography on the preservation of fruits and vegetables in transit and storage, with annotations. Prepared in the Bureau of Markets and Crop Estimates Library. 1922.
- No. 5. Index to some sources of current prices. Prepared in the Bureau of Agricultural Economics Library. 1923.
- No. 6. Partial list of publications on dairying issued in the United States, 1900 to June, 1923. Prepared in the Bureau of Animal Industry Library. 1923.
- No. 7. Bibliography on the marketing of agricultural products. Prepared in the Bureau of Agricultural Economics Library. 1924. (Superseded by U. S. Department of Agriculture Miscellaneous Circular 35).
- No. 8. Author and subject index to the publications on plant pathology issued by the U. S. Department of Agriculture up to January 1, 1925. Prepared in the Bureau of Plant Industry Library. 1925.
- No. 9. World food supply. A selected bibliography. Prepared in the Bureau of Agricultural Economics Library. 1925.
- No. 10. Refrigeration and cold storage. A selected list of references covering the years 1915-1924 and the early part of 1925. Prepared in the Bureau of Agricultural Economics Library. 1925.
- No. 11. List of manuscript bibliographies and indexes in the U. S. Department of Agriculture including serial mimeographed lists of current literature.
- No. 12. Peat: A contribution towards a Bibliography of the American Literature through 1925. 1926.

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P R E F A C E

The compilation of the following classified list of soil publications of the United States and Canada was undertaken by the Library of the Department at the request of members of the American Organizing Committee of the First International Congress of Soil Science to be held in Washington from June 13 to 22, 1927. As it is the first attempt to bring together in a comprehensive way the literature of modern soil science, there were no examples or criteria to guide in the selection and arrangement of the material. The material was difficult to handle, owing to the complicated aspects of the subject matter and it was therefore particularly unfortunate that the shortness of the time available for the compilation of the list and the great bulk of material to be handled made it impossible to obtain the expert advice of soil scientists of the Department on the many problems involved. Hence it was necessary to treat many of the technical details in an entirely arbitrary way.

That the list is full of inconsistencies and crudities is fully realized. Many important papers have undoubtedly been left out, while others of slight value are included. Articles in farm journals have, with a few exceptions, been omitted, as they are generally short and popular. Some trivial articles were also deliberately rejected, but on the whole the list is more an inclusive than a selective bibliography.

In the citations to journals the list of abbreviations used in the Experiment Station Record has for the most part been followed. Owing to the fact that sufficient time was not available for verification, the citations are not always uniform. For the same reason it is too much to hope that there are no mistakes in citation to volumes and pages. It is also regretted that it was impossible to include an author index. The list must for these various reasons be regarded only as a preliminary contribution to a bibliography of American soil literature. Criticisms, corrections, suggestions, and comments on every aspect of the work, but particularly on the plan and arrangement of material, are earnestly invited, as it may be possible later to issue a revised and improved edition. In spite of the imperfections of the present list, it is hoped that it may be useful.

The basis of the list was a collection of the printed cards of the Library of Congress for American publications on soil subjects. This comprised for the most part cards for American copy-

righted books, cards for the publications of the U. S. Department of Agriculture, and cards for a few of the state publications on soils. To this nucleus of printed cards were added cards for (1) all the state experiment station publications on soils, (2) all the articles in Soil Science from volume 1-22 (1916-1926), (3) all soil articles in the Journal of the American Society of Agronomy from volume 1-18 (1907-1926), (4) soil articles in the Journal of Industrial and Engineering Chemistry through 1926, (5) articles on soils abstracted in the Experiment Station Record from volume 1 (1889) through 1926, and (6) miscellaneous articles obtained from various sources.

In connection with this classified list a separate list of the publications on soils issued by the U. S. Department of Agriculture, arranged by series, and a similar list of the state experiment station publications on soils, arranged by states, have been prepared for publication as Bibliographical Contributions no. 14 and no. 15. While the publications in these check lists have all been included in the classified list, it was thought that the separate lists of publications arranged by issuing offices would be useful to scientific workers and libraries which wish to obtain publications or to check their files.

The list is a joint production of several members of the library staff of the bureaus and the main Library but the bulk of the work was done by Miss Marjorie F. Warner, Bibliographical Assistant in the Bureau of Plant Industry Library. Miss Warner gave continuous service on the bibliography for the past four months in all stages of the work. She devised the classification and hers was the chief responsibility in coordinating and classifying the literature. Miss Cora L. Feldkamp, Librarian of the Office of Experiment Stations, and her assistant, Miss Catherine E. Pennington, selected and catalogued the publications of the state experiment stations. Miss Minerva G. Beckwith, Librarian of the Bureau of Chemistry, and her assistant, Mrs. Mamie F. Nyström, checked and indexed articles in chemical journals. Miss Jessie M. Allen, Librarian of the Bureau of Plant Industry, indexed many sets of publications, and aided in the revision and editing of the material. Miss Charlotte Trolinger and Miss Roberta Chapman, cataloguers in the main Library, also gave much assistance in the work of indexing and in the work of proof reading. Miss Emma B. Hawks, Associate Librarian, was largely responsible for the editing of the material. In the preparation of the copy for stenciling, she had the assistance of Miss Ethel L. Smith, Secretary to the Librarian. While the task of preparing the bibliography devolved principally upon these members of the staff who have been mentioned, its completion would not have been possible without the hearty cooperation of the library staff as a whole. Thanks are also due to

administrative offices in the Bureau of Plant Industry, the Bureau of Agricultural Economics, the Bureau of Public Roads, and the Forest Service, for much assistance in connection with the typing and stenciling of the list, to the Mimeographing Section of the Office of Publications for its cooperation in hastening the mimeographing work, and to the Card Division of the Library of Congress for furnishing the collection of printed cards on soil subjects.

Claribel R. Barnett,

June 1, 1927.

Librarian.

GENERAL

Soil and Society

- Cameron, F. K. The soil as an economic and social factor. Pop. Sci. Mo. 60:539-350. 1902.
- Craven, A. O. Soil exhaustion as a factor in the agricultural history of Virginia and Maryland, 1606-1860. 179 p. (Univ. Ill. Stud. Soc. Sci. v.13, no.1, Mar. 1925)
- Marbut, C. F. The rise, decline, and revival of Malthusianism in relation to geography and character of soils. Ann. Assoc. Amer. Geogr. 15:1-44. 1925.
- Usher, A. P. Soil fertility, soil exhaustion, and their historical significance. Quart. Jour. Econ. 37:385-411. 1923.
- Whitney, Milton. Soil and civilization; a modern concept of the soil and the historical development of agriculture. New York, D. Van Nostrand company, 1925. 278 p. illus., 5 pl., maps, diagrs. (Library of modern sciences)

Soils - General Works

- Barnard, Charles. Talks about the soil in its relation to plants and business. A book of observations and experiments for the use of schools, students, and farmers. Boston, Chautauqua press, 1886. 127 p.
- New York, Funk & Wagnalls co., 1894. 127 p.
- Bear, F. E. Soil management. New York, J. Wiley & sons, inc., 1924. 268 p. illus., map. (Wiley agricultural series, J. G. Lipman, editor)
- Bear, F. E., Barker, J. F., Bachtell, M. A., and Dustman, R. B. Timely soil topics. Columbus, O., The authors, 1919. 108 p. front., pls.
- Bowman, Isiah. Forest physiography; physiography of the United States and principles of soils in relation to forestry. 1st ed., 1st thousand. New York, J. Wiley & sons, 1911. 759 p. illus., 6 maps.
- Burkett, C. W. Soils; their properties, improvement, management, and problems of crop growing and crop feeding. New York, O. Judd compnay, 1907. 303 p. front., illus.
- Cox, J. F. Crop production and soil management. New York, J. Wiley & sons, inc., 1925. 516 p. front., illus. (Wiley farm series)

GENERAL

Soils - General Works (cont'd)

- Cunningham, J. C., and Lancelot, W. H. Soils and plant life as related to agriculture. New York, The Macmillan company, 1915. 348 p. front., illus.
- Dana, S. L. A muck manual, for farmers. Lowell, D. Bixby, 1842. 242p.
- 2d ed., with additions. Lowell, Bixby and Whiting, 1843. 232p.
- A muck manual for farmers: a treatise of the physical and chemical properties of soils; the chemistry of manures; including also the subjects of composts, artificial manures and irrigation. 4th ed., with a new chapter on bones and superphosphates. New York. A. O. Moore, 1858. 312 p. tabs.
- Emerson, F. V. Agricultural geology. New York, John Wiley & sons, inc., 1920. 319 p. illus., maps, diagrs.
- Fletcher, S. W. Soils, how to handle and improve them. Illustrated from photographs by the author. New York, Doubleday, Page & company, 1907. 438p. tables. front., pls. (The farm library)
- Gardner, F. D., and Blasingame, R. W. Soils and soil cultivation, a non-technical manual on the management of soil for the production and maintenance of fertility. Philadelphia, Chicago, The John C. Winston company, 1918. 223 p. front., illus., pl., map. (Farming for profit)
- Gehrs, J. H. Soils and crops. New York, The Macmillan company, 1924. 444 p. illus., diagrs.
- Gray, H. V. Guide to the English landmarks of the soil and crops. Lancaster, Pa., Inquirer P. & P. company, 1879. 16 p. tab.
- Hilgard, E. W. Soils, their formation, properties, composition, and relations to climate and plant growth in the humid and arid regions. New York, The Macmillan company, 1906. 593 p. illus., diagrs.
- Hopkins, C. G. Soils. Calif. Conn. Hort. Mo. Bul. 1:500-508, 541-557, 635-649. 1912. Addresses at Calif. State Fruit Grow. Conv. 41st, Santa Barbara, June 12-14, 1912.
- Hopkins, C. G. The story of the soil, from the basis of absolute science and real life. Boston, R. G. Badger, 1911. 350 p. front., pls.
- Boston, R. G. Badger, 1912. 362 p. front., pls.
- 6th rev. ed. Boston, R. G. Badger, 1913. 362 p. front., pls.

GENERAL

Soils -- General Works (cont'd)

- Hunt, T. F., and Burkett, C. W. Soils and crops, with soils treated in reference to crop production. New York, Orange Judd company, 1913. 541 p. front., illus. (Hunt & Burkett's agriculture)
- King, F. H. Differences between four southern and four northern soils, and improvements in soil management which these differences suggest. U. S. Dept. Agr. Off. Expt. Sta. Bul. 142:104-111. 1904.
- King, F. H. Investigations in soil management, being three of six papers on the influence of soil management upon the water-soluble salts in soils and the yield of crops. Madison, Wis., The author, 1904. 168 p. illus., tabs., diags.
- King, F. H. Investigations in soil management. Part I. Amount of plant food readily recoverable from field soils with distilled water. Part II. Relation of crop yields to the amounts of water-soluble plant-food materials recovered from soils. Part III. Relation of difference of climatological environment to crop yields. 1905. 205 p. 4 pls., tabs., (U. S. Dept. Agr. Bur. Soils. Bul. 26)
- King, F. H. The soil, its nature, relations, and fundamental principles of management. New York, Macmillan and co., 1895. 303 p. illus., diags. (The Rural science series)
- New York, Macmillan and co., 1896. 303 p. illus., tabs. (The Rural science series)
- King, F. H. Soil management. New York, Orange Judd company, 1914. 311 p. illus., pls., diags.
- Lyon, T. L., and Buckman, H. O. The nature and properties of soils: a college text of edaphology. New York, The Macmillan co., 1922. 588 p. illus., maps, diags. (Agricultural science series)
- Lyon, T. L., and Fippin, E. O. The principles of soil management. New York, The Macmillan co., 1909. 531 p. illus., diags. (The rural text-book series)
- Lyon, T. L. Soils and fertilizers. New York, The Macmillan company, 1917. 255 p. front., illus., pls., diags. (The rural text-book series)
- Lyon, T. L., Fippin, E. O., and Buckman, H. O. Soils, their properties and management. New York, The Macmillan company, 1915. 764 p. illus., 2 maps, diags. (The rural text-book series)
- Mann, F. I. Frank Mann's soil book; how to double the production of your farm every year. Chicago, Prairie farmer, 1912. 90 p. illus.

GENERAL

Soils - General Works (cont'd)

- Mann, F. I. Frank Mann's soil book; how one Illinois farmer has doubled the production of his farm by methods that paid for themselves as he went along. 7th ed. Chicago, 1915. 116 p. illus.
- Miller, M. F. The soil and its management. Boston, Ginn and company, 1924. 386 p. illus., map.
- Morrow, G. E., and Hunt, T. F. Soils and crops of the farm. Chicago, Howard & Wilson publishing company, 1892. 303 p. illus. (Farmers' progressive reading circles. Course in agriculture I. Published for the Farmers' educational association)
- Mosier, J. G., and Gustafson, A. F. Soil physics and management. Philadelphia, J. B. Lippincott company, 1917. 442 p. illus., tabs., map, diags. (Lippincott's college texts; agriculture)
- Mosier, J. G. Soils and crops. Ed. by Eugene Davenport. Chicago, New York, Rand, McNally & company, 1919. 412 p. illus., maps, diags.
- Power, R. A. Hints on soils and fertilizers. Girard, Kan., Haldeman-Julius company, 1923. 64 p. diagr. (Little blue book. no. 486)
- Roberts, I. P. The fertility of the land; a summary sketch of the relationship of farm-practice to the maintaining and increasing of the productivity of the soil. New York, The Macmillan company, 1897. 415 p. illus. (The Rural science series)
- 11th ed. New York, The Macmillan company, 1909. 421 p. illus. (The Rural science series)
- Smith, E. A. A general discussion of the composition, mode of formation and properties of soils; and of the changes produced by cultivation. Alabama Geol. Surv. Rpt. 1881/82:1-154. 1883.
- Snyder, Harry. The chemistry of soils and fertilizers. Easton, Pa., The Chemical publishing company, 1899. 277 p. illus.
- Snyder, Harry. Soils and fertilizers. 2d ed. Easton, Pa., The Chemical publishing co., 1905. 294 p. illus., pl.
- 3d ed. New York, The Macmillan company, 1908. 350p. illus.
- Stockbridge, H. E. Rocks and soils; their origin, composition and characteristics; chemical, geological and agricultural. New York, J. Wiley & sons, 1898. 239 p. illus., pls.
- 2d ed., rev. and enl. New York, J. Wiley & sons, 1895. 282 p. illus., pls.

GENERAL

Soils - General Works (cont'd)

- Weir, W. W. Productive soils; the fundamentals of successful soil management and profitable crop production. Philadelphia & London, J. B. Lippincott company, 1920. 398 p. front., illus., maps. (Lippincott's farm manuals)
- 2d ed., enl. Philadelphia & London, J. B. Lippincott company, 1922. 317 p. front., illus., maps. (Farm life text series)
- 2d rev. ed. Philadelphia & London, J. B. Lippincott company, 1923. 398 p. front., illus., maps. (Lippincott's farm manuals.)
- Whitney, Milton. Soil features that should be recognized in all plat work. U. S. Dept. Agr. Off. Expt. Sta. Bul. 7:91. 1892.
- Whitney, Milton. Soils in their relation to crop production. U. S. Dept. Agr. Yearbook. 1894:129-164. illus. 1895.
- Whitson, A. R., and Walster, H. L. Soils and soil fertility. St. Paul, Minn., Webb publishing co., 1912. 315 p. illus. (Farm science series)
- Wood, R. S. The soil, considered as a separate and distinct department of nature. Washington, 1850. 11 p.

Soils - Periodicals and Reports

- American soil survey association. Bulletin no. 1-7, pt.1. Madison, Wis., 1921-26.
Mimeographed.
No. 1-4, name was American association of soil survey workers.
- British Columbia. Dept. of agriculture. Soil and crop branch. Soil and crop circular, no. 1-3, Victoria, 1923-24.
- Canada. Experimental farms. Chemist. Evidence...before the select standing committee on agriculture and colonization, 1893-94, 1896-1905, 1907/08-1909, 1915. Ottawa, 1893-1915.
Frank T. Shutt, chemist.
- Journal of soil improvement [quarterly] v.1-3, May 1917 - Feb. 1920. illus. Madison, Wis., 1917-20.
Ceased pub.
Official organ of Wisconsin soil improvement association.
- Mississippi soil improvement journal [quarterly]. v. 1-2, no. 1. Apr. 1923-Jan. 1924. [Agricultural college, Miss., 1923-24] Ceased publication with v. 2, no. 2.
Official organ of the Dept. of soils and crops of the School of agriculture, Mississippi A. & M. college, and the Mississippi state soil improvement association.

Soils - Periodicals and Reports (cont'd)

Nebraska - Conservation and soil survey. Bulletin no. 1-2,4-12, 14-15.
Lincoln, Neb., 1916-20. illus., pls., maps. 8°.

Soil science [a monthly journal devoted to problems in soil physics,
soil chemistry and soil biology] v.1-22, Jan. 1916-Dec. 1926.
Baltimore, Md., Williams & Wilkins company, 1916-26. illus., plates.
current.

Soils - Study and Teaching

Bear, F. E. The teaching of soils. Jour. Am. Soc. Agron. 14:307-312. 1922.

Bear, F. E. The value of the soil survey as a basis for soil studies
and soil use. C. In the teaching of soils in college. Jour. Am.
Soc. Agron. 16:457-439. 1924.

Beaumont, A. B. The field problem in the soils course. Jour. Am. Soc.
Agron. 14:79-38. 1922.

Beaumont, A. B. The introductory course in soils. Jour. Am. Soc. Agron.
13:79-81. 1921.

Beaumont, A. B. Some devices and methods used in teaching soils. Jour.
Am. Soc. Agron. 18:1025-1028. illus., diagrs. 1926.

Brown, P. E. Soils courses at the Iowa State College. Jour. Am. Soc.
Agron. 8:42-47. 1916.

Brown, P. E. The teaching of soil bacteriology. Jour. Am. Soc. Agron.
13:323-329. 1921.

Buckman, H. O. The organization of a general introductory course in
soils and the extent to which it should be based on pure science.
Jour. Am. Soc. Agron. 15:55-59. 1923.

Buckman, H. O., Karraker, P. E., and Throckmorton, R. I. The organization
of a general introductory course in soils with special reference to the
laboratory exercises. Jour. Am. Soc. Agron. 16:86-91. 1924.

Buckman, H. O. The teaching of elementary soils. Jour. Am. Soc. Agron.
12:55-57. 1920.

Call, L. E. A method of recording the results of students' work in the
soils laboratory. Proc. Am. Soc. Agron. 4:40-51. 1913.

Karraker, P. E. Notes on the conference on elementary soil teaching,
held at Lexington, Kentucky, June, 1920. Soil Sci. 10:247.

GENERAL

Soils - Study and Teaching (cont'd)

- Karraker, P. E. Report on the progress in standardizing the elementary college course in soils. Jour. Am. Soc. Agron. 15:25-28. 1923.
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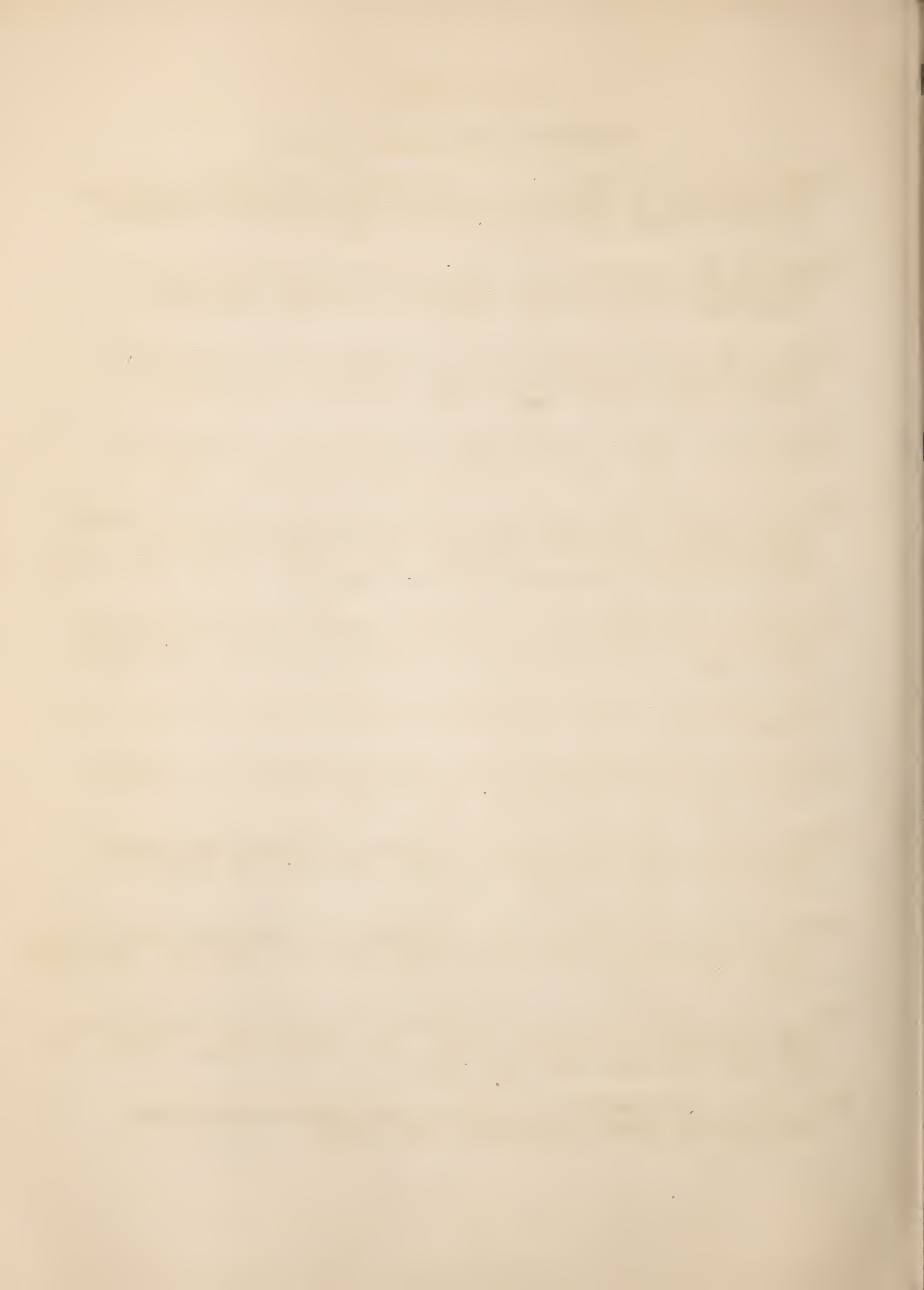
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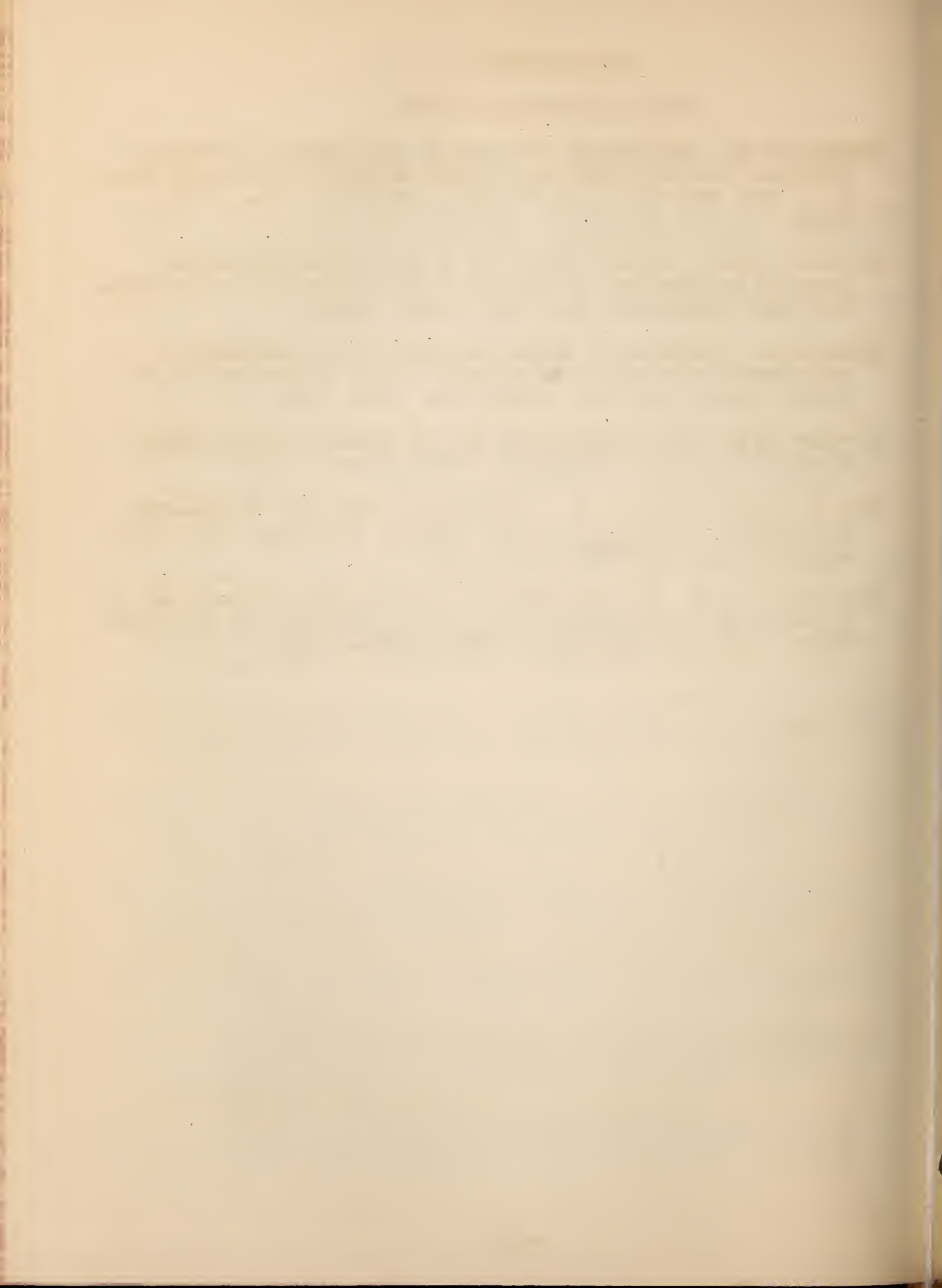
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